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NAV 9 1922
Acc. No.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY State: S. C. alaska DESCRIPTIVE REPORT. W. D. Sheet No. 4147 LOCALITY: Stephens Passage Vicinty of Oliver Sul 1922 .

#### DESCRIPTIVE REPORT

to accompany Wire Drag Sheet No. 4147.a

NOV 8 12 34 PM -22

In accordance with paragraph 15 of instructions dated, Rebruary 13, 1922, drag work as described below was done on sheet No.4147.

Splits on the north shore of the passage between  $\triangle$  Jumbo and  $\triangle$  Hilda were covered. The drag caught in the northern most of these two splits when set to an effective depth of 55 feet and ecleared at 45 feet. The least depth found with the lead was 91 feet. It is believed that this obstruction, as well as others found in this vicinity, is a sunken pile or similar obstruction. The southern split was covered with an effective depth of 54 ft.

On the south shore inshore dragging was done from  $\triangle$  Oliver to  $\triangle$  Rain. About midway between these two dignals and 400 meters south of the range between then the drag caught at 28 feet (effective). The nature of the bottom, the fact that the bights of two drags from opposite directions came together at exactly the same point and the existence of piles inshore, are considered certain indications that this obsutruction is also a sunken pile. The least sounding at this point was 51 feet.

Further work in this section was impracticable and the shoreline from  $\triangle$  Rain to Pt. Young as mentioned in the instructions referred to above, was not done.

Submitted by:

Approved by

E

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### Statistics for Sheet No. 4147

Date	Letter	Vol.	Positions	Miles	andgs.
July 5	<b>A</b>	1	11	3.2	
. 6	<b>B</b>	1	24	5.0	4
7	C	1	21	4.0	1

Jan. 8, 1923.

4,70

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in volumes of sounding records for HYDROGRAPHIC SHEET

Locality: Stephens Passage, S. R. Alaska

Chief of Party: J. H. Hawley in 1922
Plane of reference is mean lower low water, reading
10.6t. on tide staff at Juneau, Alaska

### Innarration electronian factory except as checked below:

- 1. Locality and sublocality of survey omitted.
- 2. Month and day of month omitted.
- 3. Time meridian not given at beginning of day's work.
- 4. Time (whether A.M. or P.M.) not given at beginning of day's work.
- 5. Soundings (whether in feet or fathoms) not clearly shown in record.
- 6. Leadline correction entered in wrong column.
- 7. Field reductions entered in "Office" column.
- v8. Location of tide gauge not given at beginning of each day's work.
- 9. Leadline corrections not clearly stated.
- 10. Kind of sounding tube used not stated.
- 11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
- 12. Legibility of record could be improved.
- 13. Remarks.

Chief. Division of Tides and Currents.

AMD REFER TO NO.

# DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY WASHINGTON

#### SECTION OF FIELD RECORDS

Report on Wire Drag Sheet No. 4147 - a.

Surveyed in 1922.

Chief of Party: J. H. Hawley.

Surveyed by: G. C. Jones.

Protracted and Inked by: C. E. Christopherson.

Verified and Area and Depth Sheet by: A. L. Shalowitz.

- 1. The records are good and conform to the requirements of the General Instructions.
- 2. The extent of dragging satisfies the specific instructions with the exception that the drag should have been carried along the south shore to Point Young.
- 3. The least depth was not found on all shoals discovered. In the bight east of Pt. Hilda, the drag caught at 55 feet and cleared at 45. The least sounding obtained was 91 feet. The obstruction is probably a sunken pile, and as a depth of 45 feet is guaranteed it is not essential to determine the exact depth of the obstruction. However, along the south shore between \$\Delta\$ Oliver and \$\Delta\$ Rain the drag caught at 37 and 28 feet at practically the same spot. The least water obtained was 49 feet. Evidently the obstruction is also a sunken pile. As the drag grounded at so shallow a depth, it should have been dragged over until a clearance was obtained.
- 4. The overlaps are sufficient except as shown on the area and depth sheet.
- 5. Additional work should be done along the south shore from Δ Rain to Pt. Young as mentioned in review of 4147. When this is done the area where 49 feet was obtained as mentioned in Paragraph 3 should also be dragged and the least water determined.
- 6. Reviewed by A. L. Shalowits, January, 1923.

#### DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

### HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

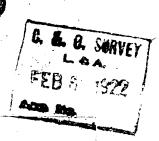
Register No. 4147 (Additional work)					
State S.E.Alaska					
General locality Stephens Passage					
Chief of party					
Surveyed by . G.C.Jones					
Date of surveyJuly 5 to.7, 1922					
Scale 1:40,000					
Soundings in Feet					
Plane of reference Mean lower low water					
Protracted by .C.E.C Soundings in pencil by C.E.C					
Inked by . $C_{\bullet} \Xi_{\bullet} C_{\bullet}$ Verified by					
Records accompanying sheet (check those forwarded):					
Des. report, Tide books, Marigrams, Boat sheets,					
Data from other sources affecting sheet					

Remarks: This title for work done in 1922. It is assumed that this work will be plotted on the original sheet in the Washington Office. The work however is completely plotted on the tracing of the original sheet to avoid loss in the mails.

Tidal readings for reduction of work were obtained on a staff at Juneau connected with old bench marks. The staff reading corresponding to the plane of reference (M.L.L.W.) is 10.6 feet.

# (Additional work)

# 4147



Add tonal Work DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY 11-5013 State: D. E. alaska DESCRIPTIVE REPORT. 4147 LOCALITY:

## DESCRIPTIVE REPORT SHEET C. Register No.4147.

A small amount of work was done on this sheet in 1920 and the sheet was returned for completion in 1921. The 1920 work has been indicated by placing the figures 1920 in green on the few days work was done that year.

Preliminary soundings were made between Foint Arden and Station Rock. Owing to poor seeing several positions had to be redetermined on account of wrong objects; except for this the area most needing soundings is complete.

The relatively shoal area from Oliver Inlet to Point Young was carefully developed. The drag caught several times in an unexplained manner in this region, apparently on some piling, probably the remains of an old fish tran. It is possible that the peculiar currents of this region could have carried the drag wire down and made it catch at a greater depth than is indicated. It is recommended, however, that in the absence of soundings, a depth slightly less than indicated by the drag catching be considered as the actual depth on the obstruction. One line of sounding was carried along behind the sweep, chiefly for the nurpose of finding the minimum depth in which the sweep could be used. The indications are that this depth is about 23 fathoms but that the wire actually slides on smooth bottom when the depth is as small as this. The original expectation was that the sweep could not be taken into depths much less than 40 fathoms.

Descriptive report Sheet C --- page 2.

east of Point Hilda. It is requested that the work along the south shore east of Point Young, be examined to see whether it approaches near enough to the shore; also the junction with Mr. Colbert's work of 1917 should be examined to see whether it is satisfactory. It is recommended that any area to be covered be furnished to Captain Hawley by tracing or bromide or that the work be completed on this sheet at the office, to avoid multiplication of sheets.

Owing to the need for keeping the depth unit the same as that for the drag, the soundings are plotted in feet.

diest .C. want barre He of Assles slotter length of Dred No. Angles Kiles America 5/16 21 ചാരവ. 1Aaaa 10000 8/2 6/3  $\boldsymbol{T}$ 10000\_3000 111 10000 30 6/4 P 126 6/6 10000 6/7 10000 63 10 6/8 134 38 10.0 8000<u>-4</u>000 30 6/9 4000 130 6/10 4000 120 6/11 23 3.7 4000 6/13 4000 60 3.0 6 6/14 N 10000 84 20 ي 7/19 7000\_3000 45 <u>5 ۽ څ</u> 8/31 108 <u>6000</u> 105 10.0 4100 66 57 6.0

Summary 2354 No or amgles.... " miles drag 109.0 11 sags. 27.0 121 53.7 " sq. miles

Verification Report of Wise Drag 4147 The most of the fish part of this shut were poorly rept. In the latter part the mording was void. all In stolling was well done and anurals. The greater amount of the work was with the surepand its effective digth is shown on the "Hand D"sheet as 85 T. One small split twide the one pointed out in The description uport was found and marked: It es at the sweller western end of Stephens Passage. The grade of paper used was very goor making good ligibility of slotted soundings difficult (Repulfelly submitted

Celon Sau Gentleman

March 11, 1922.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in

volumes of sounding records for and 3 vols. of wire-drag records for

HYDROGRAPHIC SHEET

Locality: Stephens Passage, S. E. Alaska

Plane of reference is Heck in 1921

ft. on tide staff at make Water, reading

" Juneau, Gastineau Channel

Transferred or escaped description of the charactery except as checked below:

1. Locality and sublocality of survey omitted.

2. Month and day of month omitted.

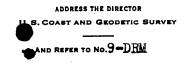
3. Time meridian not given at beginning of day's work.

- 4. Time (whether A.M. or P.M.) not given at beginning of day's work.
- 5. Soundings (whether in feet or fathoms) not clearly shown in record.
- 6. Leadline correction entered in wrong column.
- 7. Field reductions entered in "Office" column.
- 8. Location of tide gauge not given at beginning of each day's work.
  - 9. Leadline corrections not clearly stated.
  - 10. Kind of sounding tube used not stated.
  - 11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".

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- 12. Legibility of record could be improved.
- 13. Remarks.

Chief, Division of Tides and Currents.



# DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY WASHINGTON

SECTION OF FIELD RECORDS

Report on Wire Drag Sheet 4147

Surveyed in 1920 and 1921.

Chief of Party: N. H. Heck

Surveyed by: Field Party. Instructions dated March 2, 1920.

Protracted and Inked by: B. Friedenberg, W. S. Chovan, A. M. Weber

Verified and Area and Depth Sheet by: A. Baer

- 1. The records conform to the requirements of the General Instructions.
- 2. The methods and character of operations fulfill the requirements of the General Instructions.
- 3. The depth and extent of dragging satisfy the specific instruetions.
- 4. The least depth was not found on all shoals discovered. In the snoal area between Oliver Inlet and Point Young, the drag hung up but in all cases a greater depth was found than that to which the drag was set. The depths charted should be as shown on the Area and Depth sheet in pencil (See descriptive Report).
- 5. The supplemental hydrography is suitable for correcting the charts.
- 6. The overlaps are sufficient.
- 7. There are two splits on this sheet that should be covered when work is done in this vicinity. Also the drag should be carried closer inshere along the south shore from Oliver Inlet to Point Young. The drag should also be carried closer inshere along the north shore around Point Hilda and westward. This area is, therefore, not complete. \* Secret page.

- 8. The field plotting was completed to the extent prescribed in the General Instructions, and none of the work had to be done over by the office draftsman.
- 10. Reviewed by: A. L. Shalowitz, September, 1922.
  - \*. The two splits mentioned in #7. were covered by Hawley in July 1922. Also the area around Pt. Hilda. However, only about half of the shoreline from Oliver Inlet to Pt. Young was dragged. See review of 4147-a attached to this report.

    A.L.S (Jan. 1923)

#### DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

### HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4147 (WIRE DRAG)
State . S. E. Alaska
General Pocality Stephens Passage
Locality . Taky . Harbor . to Gastineau. Channel
Chief of party . NHHe.ck
Surveyed by N. H. Heck., G.C. Jones
Date of survey
Scale 1- 40000
Soundings in Feet
Plane of referenceM.L.L.W
Protracted by B. Friedenberghdings in pencil by .B.F
Inked by . B. F Verified by B. Bacr
Records accompanying sheet (check those forwarded):
Des. report, Tide books, Marigrams, Boat sheets,
Sounding books, Wire-drag books, Photographs.
Data from other sources affecting sheet

Remarks: Field Nos. B and C.

#### DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

### HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey. Register No. 4147 (Additional work) State S.E. Alaska Locality Grand I. to Young Bay Chief of party . . N. H. Heck Field Party
Surveyed by Various officers, G.C. Jones chiefly. . . . . . Date of survey May to September, 1921. Protracted by W.J.Choyan . Soundings in pencil by A.M.Weber. Inked by W.J.Chovan . . . Verified by A. Barr . . . . . . Records accompanying sheet (check those forwarded): Des. report, ...... Tide books, ...... Marigrams, ... Boat sheets, \_\_\_\_\_ Sounding books, \_\_\_\_ Wire-drag books, \_\_\_\_ Photographs. Data from other sources affecting sheet . . . . . . .

Remarks:

Upphed to Reumhurtum of Chart +235 2-10-40 by Chas Rosenship

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